

1 **Listing of Claims:**

2 **CLAIMS**

- 3 1. (currently amended) A method for adapting a transmission parameter in a transmitting node
4 (+) of a data communication system (8) to the current link quality of a data communication
5 channel (7), the adapted transmission parameter being selected by the transmitting node (+)
6 from a set of transmission parameters in dependence on a number of successful
7 transmissions (s); the number of successful transmissions (s) being compared in the
8 transmitting node (+) against one of a first value (s1) corresponding to a first state (H) of the
9 transmitting node (+) and a second value (s2) corresponding to a second state (L) of the
10 transmitting node (+), the method comprising in the transmitting node (+) the steps of:
11 counting the number of successful transmissions (s);
12 selecting the adapted transmission parameter
13 in response to the number of successful transmissions (s) equaling or exceeding the first
14 value (s1) when the transmitting node (+) is in the first state (H), and
15 in response to the number of successful transmissions (s) equaling or exceeding the
16 second value (s2) when the transmitting node (+) is in the second state (L); and
17 in dependence of the success or failure of a subsequent transmission, operating the
18 transmitting node (+) in one of the first state (H) and the second state (L).
- 19 2. (currently amended) Method according to claim 1, wherein the step of operating the
20 transmitting node (+) in the second state (L) further comprises in the event of a faulty
21 transmission transitioning to the first state (H).
- 22 3. (currently amended) Method according to any preceding claim further comprising setting the
23 first value (s1) to 3 and the second value (s2) to 10.

- 1 4. (currently amended) Method according to ~~any preceding claim 1,~~ further comprising counting
2 a number of faulty transmissions (f_f) and selecting the adapted transmission parameter in
3 dependence of a threshold of the number of faulty transmissions (f_T).

4 5. (currently amended) Method according to claim 4, further comprising setting the threshold of
5 the number of faulty transmissions (f_f) to 1.

6 6. (currently amended) Method according to ~~any preceding claim 1,~~ further comprising selecting
7 the transmission parameter used by a responding receiver (f_2).

8 7. (currently amended) Method according to ~~any preceding claim 1,~~ wherein the step of selecting
9 the adapted transmission parameter further comprises selecting a different data rate.

10 8. (currently amended) Method according to ~~any preceding claim 1,~~ wherein the step of selecting
11 the adapted transmission parameter further comprises selecting a packet length different to
12 the length used before.

13 9. (currently amended) A computer program comprising program code means for performing ~~the~~
14 ~~steps of the method of any of the claims claim 1,1 to 8-~~when said program is run on a
15 computer.

16 10. (currently amended) A computer program product stored on a computer usable medium,
17 comprising computer readable program means for causing a computer to perform the steps
18 of the method of ~~any of the preceding claims 1 to 8- claim 1.~~

19 11. (currently amended) An apparatus (\oplus) for adapting a transmission parameter to the current
20 link quality of a data communication channel (\mathcal{T}), the adapted transmission parameter being
21 selected from a set of transmission parameters in dependence on a number of successful

1 transmissions (*s*), the number of successful transmissions (*s*) being compared against one of
2 a first value (*s1*) corresponding to a first state (*H*) of the apparatus and a second value (*s2*)
3 corresponding to a second state (*L*) of the apparatus, the apparatus comprising:
4 a success counter (*t10*) for counting the number of successful transmissions (*s*);
5 a selecting unit (*t12*) for selecting the adapted transmission parameter
6 in response to the number of successful transmissions (*s*) equaling or exceeding the first
7 value (*s1*) when the apparatus is in the first state (*H*), and
8 in response to the number of successful transmissions (*s*) equaling or exceeding the
9 second value (*s2*) when the apparatus is in the second state (*L*); and
10 a decision unit (*t14*) which in dependence of the ~~result success or failure of a following~~
11 ~~subsequent~~ transmission informs the selecting unit (*t12*) to operate in one of the first state
12 (*H*) and the second state (*L*).

13 12. (currently amended) Apparatus according to claim 11, further comprising a failure counter for
14 counting a number of faulty transmissions (*f*).

15 13. (new) An article of manufacture comprising a computer usable medium having computer
16 readable program code means embodied therein for causing adaptation of a transmission
17 parameter in a transmitting node of a data communication system, the computer readable
18 program code means in said article of manufacture comprising computer readable program code
19 means for causing a computer to effect in the transmitting node the steps of:

20 counting the number of successful transmissions;
21 selecting the adapted transmission parameter
22 in response to the number of successful transmissions equaling or exceeding the first
23 value when the transmitting node is in the first state, and
24 in response to the number of successful transmissions equaling or exceeding the second
25 value when the transmitting node is in the second state; and

1 in dependence of the success or failure of a subsequent transmission, operating the
2 transmitting node in one of the first state and the second state.

3 14. (new) A program storage device readable by machine, tangibly embodying a program of
4 instructions executable by the machine to perform method steps for adapting a transmission
5 parameter in a transmitting node of a data communication system, said method steps comprising
6 the steps of claim 1.

7 15. (new) An article of manufacture comprising a computer usable medium having computer
8 readable program code means embodied therein for causing adaptation of a transmission
9 parameter in a transmitting node of a data communication system, the computer readable
10 program code means in said article of manufacture comprising computer readable program code
11 means for causing a computer to effect in the transmitting node the steps of claim 2.

12 16. (new) An article of manufacture comprising a computer usable medium having computer
13 readable program code means embodied therein for causing adaptation of a transmission
14 parameter in a transmitting node of a data communication system, the computer readable
15 program code means in said article of manufacture comprising computer readable program code
16 means for causing a computer to effect in the transmitting node the steps of claim 3.

17 17. (new) An article of manufacture comprising a computer usable medium having computer
18 readable program code means embodied therein for causing adaptation of a transmission
19 parameter in a transmitting node of a data communication system, the computer readable
20 program code means in said article of manufacture comprising computer readable program code
21 means for causing a computer to effect in the transmitting node the steps of claim 4.

22 18. (new) An article of manufacture comprising a computer usable medium having computer
23 readable program code means embodied therein for causing adaptation of a transmission
24 parameter in a transmitting node of a data communication system, the computer readable

.1 program code means in said article of manufacture comprising computer readable program code
2 means for causing a computer to effect in the transmitting node the steps of claim 5.

3 19. (new) A computer program product comprising a computer usable medium having computer
4 readable program code means embodied therein for causing adaptation of a transmission
5 parameter to the current link quality of a data communication channel, the computer readable
6 program code means in said computer program product comprising computer readable program
7 code means for causing a computer to effect the functions of claim 11.

8 20. (new) A computer program product comprising a computer usable medium having computer
9 readable program code means embodied therein for causing adaptation of a transmission
10 parameter to the current link quality of a data communication channel, the computer readable
11 program code means in said computer program product comprising computer readable program
12 code means for causing a computer to effect the functions of claim 12.